

SEQUENCE LISTING

<110> Thomashow, Linda S.
Delaney, Shannon M.
Mavrodi, Dmitri V.
Weller, David M.

<120> Sequences Encoding PhzO and Methods

<130> 0229.99

<150> US 60/236,634

<151> 2000-09-29

<160> 11

<170> PatentIn version 3.1

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<213> Pseudomonas chlororaphis

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T02260"5259660

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1

5

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Lys Tyr Leu Lys Ser Ala Glu Ser Phe Lys Ala Ser Leu Arg Asp Asn

10

15

20

cgc act gtt att tat caa ggc caa gtt gtt gag gat gtg act aca cac 208

Arg Thr Val Ile Tyr Gln Gly Gln Val Val Glu Asp Val Thr Thr His

25

30

35

40

ttc tct acg gct gga ggc ata tcg caa gtt gca gaa atc tac gaa gaa 256

Phe Ser Thr Ala Gly Gly Ile Ser Gln Val Ala Glu Ile Tyr Glu Glu

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ggt tac ctg gcc tct tct gcc tat atg ccc cct aga aac aaa gaa gac 352

Gly Tyr Leu Ala Ser Ser Ala Tyr Met Pro Pro Arg Asn Lys Glu Asp

75

80

85

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Gly Thr His Cys Arg Asn Leu Asp Met Ile Ala Ser Phe Thr Val Gly	
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atg atg gga tat ctg ccg aca ttc agg aaa aaa tgc cct gag tac gca	496
Met Met Gly Tyr Leu Pro Thr Phe Arg Lys Lys Cys Pro Glu Tyr Ala	
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gaa aac att acc gaa tac cat gac tac gcc gag cgc aac agc ctg tat	544
Glu Asn Ile Thr Glu Tyr His Asp Tyr Ala Glu Arg Asn Ser Leu Tyr	
140 145 150	
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Leu Ser Glu Thr Ile Val Asp Pro Gln Gly Tyr Arg Ala Arg Thr His	
155 160 165	
ggc acc gac ctc aac ctg ccg ccg ccc gat cgt gcc gtg atg agg atc	640
Gly Thr Asp Leu Asn Leu Pro Pro Pro Asp Arg Ala Val Met Arg Ile	
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aac aag cag aac gcc gag ggc atc tgg atc agc ggc gtc aaa ggc gtg	688
Asn Lys Gln Asn Ala Glu Gly Ile Trp Ile Ser Gly Val Lys Gly Val	
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Gly Thr Ala Ala Pro Gln Ser Asn Glu Ile Phe Val Gly Ser Leu Phe	
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Pro Ala Ala Pro Glu Glu Ser Phe Trp Ala Tyr Val Pro Val Asp Ala
220 225 230

ccg ggg gtg aag att ttt tgc cga gag att gtc tcc cag cct cac gcc 832
Pro Gly Val Lys Ile Phe Cys Arg Glu Ile Val Ser Gln Pro His Ala
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Ser Ala Tyr Asp His Pro Leu Ile Ser Lys Gly Glu Glu Ala Glu Ala
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Met Val Val Phe Asp Asn Val Phe Ile Pro Arg Trp Arg Ile Met Ala
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gcg aac gtg ccg gaa ctg gcc agc gcc ggc ttc ttc agt ctg tgg acc 976
Ala Asn Val Pro Glu Leu Ala Ser Ala Gly Phe Phe Ser Leu Trp Thr
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Ser Tyr Ser His Trp Tyr Thr Leu Val Arg Leu Glu Thr Lys Ala Asp
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315 320 325

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Glu Ile Leu Lys Gly Met Cys Ile Ala Ser Ile Glu Thr Ala Glu Met

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aac gcc aaa tag acctgattgc cgtgtaggcg ccgcgcaacc cttcattcgt 1604

Asn Ala Lys

490

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Val Val Glu Asp Val Thr Thr His Phe Ser Thr Ala Gly Gly Ile Ser
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Ile Leu Thr Tyr Val Arg Pro Asp Gly Tyr Leu Ala Ser Ser Ala Tyr
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Met Tyr Val Ser Gln Lys Thr Trp Gly Thr His Cys Arg Asn Leu Asp
100 105 110

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115 120 125

Arg Lys Lys Cys Pro Glu Tyr Ala Glu Asn Ile Thr Glu Tyr His Asp
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Tyr Ala Glu Arg Asn Ser Leu Tyr Leu Ser Glu Thr Ile Val Asp Pro
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Gln Gly Tyr Arg Ala Arg Thr His Gly Thr Asp Leu Asn Leu Pro Pro
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Pro Asp Arg Ala Val Met Arg Ile Asn Lys Gln Asn Ala Glu Gly Ile

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Glu Ile Phe Val Gly Ser Leu Phe Pro Ala Ala Pro Glu Glu Ser Phe
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Trp Ala Tyr Val Pro Val Asp Ala Pro Gly Val Lys Ile Phe Cys Arg
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Glu Ile Val Ser Gln Pro His Ala Ser Ala Tyr Asp His Pro Leu Ile
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Ser Lys Gly Glu Glu Ala Glu Ala Met Val Val Phe Asp Asn Val Phe
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Ile Pro Arg Trp Arg Ile Met Ala Ala Asn Val Pro Glu Leu Ala Ser
275 280 285

Ala Gly Phe Phe Ser Leu Trp Thr Ser Tyr Ser His Trp Tyr Thr Leu
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Val Arg Leu Glu Thr Lys Ala Asp Leu Tyr Ala Gly Leu Ala Lys Val
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Ala Ser Ile Glu Thr Ala Glu Met Ser Asp Gly Asp Ile Leu Leu Pro
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Gly His Asn Ala Leu Ala Ala Gly Arg Val Phe Ala Met Glu Lys Leu
370 375 380

Pro Arg Val Leu His Leu Leu Arg Glu Leu Cys Gly Gln Gly Leu Ile
385 390 395 400

Leu Arg Phe Asn Glu Lys Asp Leu Ala Ala Asp Ala Ala Phe Gly Gln
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Lys Phe Ser Trp Phe Leu Asp Thr Gln Ser Val Gly Ala Arg Glu Lys
420 425 430

Asn Leu Leu Met Asn Leu Val Trp Asp Val Ala Ala Ser Glu His Ser
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